

ABSTRACT

A loop filter (30) includes a first capacitor (31) provided between an input terminal for a current signal and a reference voltage, a switched capacitor circuit (32) provided between the input terminal and the first capacitor (31) and a second capacitor (33) provided in parallel to the first capacitor (31) and the switched capacitor circuit (32). In the
5 switched capacitor circuit (32), when a third capacitor (321) is connected to the first capacitor (31), a fourth capacitor (322) is connected to the second capacitor (33). In the loop filter (30) having the above-described configuration, a capacitance value of the second capacitor (33) is set to be larger than respective capacitance values of the third and
10 fourth capacitors (321 and 322).